



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

10/646,718

Filing Date:

August 25, 2003

Applicant:

Jong-hyoung LIM et al.

Group Art Unit:

2818

Examiner:

Huan Hoang

Title:

INTEGRATED CIRCUIT MEMORY DEVICE INCLUDING DELAY LOCKED LOOP CIRCUIT AND DELAY LOCKED LOOP CONTROL CIRCUIT AND METHOD OF CONTROLLING DELAY LOCKED LOOP

CIRCUIT

Attorney Docket:

U.S. Patent and Trademark Office 220 20th Street S. Customer Window Mail Stop <u>Amendment</u> Crystal Plaza Two, Lobby, Room 1B03 Arlington, VA 22202 January 10, 2005

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information submitted for consideration by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. COPIES

A. Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

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| | B. Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120: | | | | | |
|------|--|---|---|--|--|--|
| | U.S. Serial Number | <u>U</u> | J.S. Filing Date | | | |
| | C. Because the present applic copies of the U.S. patents or U.S. the attached Form 1449 are er § 1.98(a)(2)(i). Any foreign paten attached Form 1449 are enclosed here. | patent application publica aclosed pursuant to the t documents or non-pater | tions which are listed on waiver of 37 C.F.R. | | | |
| | D. This is a PCT application in the A copy of the International Search. The documents listed on the International Search from this application. Since the International Search authorities, copies of USPTO under the trilateral agreement identified application. (MPEP 1893) | Report is attached for the national Search Report as Examiner and for listing ternational Search Report these references should be the and are believed to be | Examiner's information. re listed on the attached g on any patent resulting was from the US, EPO, have been supplied to the | | | |
| III. | CONCISE EXPLANATION OF TI | <u>HE RELEVANCE</u> (check | at least one box) | | | |
| | A. Except as may be indicated other information are in the English | | | | | |
| | B. A concise explanation of the information listed that is not in the 1.98(a)(3)): | _ | _ | | | |
| | 2. ☐ English translations ar3. ☑ Other: English Abstraction | with English translation e provided for: | tent Laid-open No. | | | |
| | C. The following additional consideration. | information is provid | ed for the Examiner's | | | |
| IV. | CROSS REFERENCE TO RELATED APPLICATION(S) | | | | | |
| | A. The Examiner is advised contain(s) subject matter that may this(these) application(s) to the Examiner that confidentiality provisions of 35 | be related to the present a miner's attention, Applica | application. By bringing | | | |
| | Serial No. | Filing Date | Art Unit | | | |

| THIS IDS IS BEING FILED UNDER |
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| A. 37 C.F.R. § 1.97(b): (check <u>only</u> one box) |
| 1. within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)) No fee or certification is required. |
| 2. within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee of certification is required. |
| 3. before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p). |
| 4. before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required. |
| B. 37 C.F.R. § 1.97(c): (check <u>only</u> one box) |
| before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action tha otherwise closes prosecution. |
| 1. No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p). |
| 2. See the certification below. No fee is required. |
| C. 37 C.F.R. § 1.97(d): |
| after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee. |
| 1. See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p). |

V.

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

| | The undersigned hereby certifies that: |
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| | A. each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F. R. 1.704(d) below in section VII, if applicable; or |
| | B. no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)). |
| | C. Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS. |
| VII. | STATEMENT UNDER 37 CFR 1.704(d) |
| | The undersigned hereby states that: |
| | each item of information contained in this IDS was cited in a communication from gn patent office in a counterpart application and this communication was not received individual designated in 37 C.F.R. 1.56(c) more than thirty days prior to the filing of S. |
| VIII. | PAYMENT OF FEES (check only one box) |
| | A. A check in the amount of \$180.00 is enclosed for the above-identified fee. |
| | B. Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached. |

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

HARNESS, DICKEY, & PIERCE, P.L.C.

P.O. Box 8910 Reston, Virginia 20195

(703) 668-8000

GDY:jcp

Enclosures:

Form PTO-1449

Documents

Foreign Search Report

Fee

Other: Korean Office Action with translation

| | | | | ATTORNEY DOCKET No. | SERIAL NO. | | | | | |
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| FORM HDP-1449 (Based on Form PTO-1449) | | | | 2557-000155/US | 10/646,718 | | | | | |
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| INCORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | | | | Jong-hyoung LIM et al. | | | | | |
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| | | Korean Office Action da | ated 10/28/2004, | with En | glish translation. | | | | | |
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